

Lab Data Package 1

The attached data describes samples listed below that were collected on Saturday, January 10, 2009, by EPA's START contractor, TetraTech, Inc., and analyzed by *ENERSOLV*, in support of EPA's response to the TVA Widows Creek Fossil Plant Gypsum Pond Release in Stevenson, Ala.

<u>Sample ID Number</u>	<u>Sample Description</u>	<u>Sample Location</u>
AA72665	TVA-TNUP-20090110-001	1 mile upstream of confluence ¹
AA72666	TVA-TNDN-20090110-002	600 feet downstream of confluence
AA72667	TVA-TN117-20090110-003	5 miles downstream at Highway 117
AA72688	TVA-SW1-20090110-004	Scottsboro drinking water intake

¹ The confluence of Widows Creek and the Tennessee River is about 2 miles from the location where TVA's gypsum settling pond overflowed into Widows Creek on Jan. 9, 2009.

January 12, 2009

John Schendel
Tetra Tech
2110 Powers Ferry Road Ste. 202
Atlanta, GA 30339

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

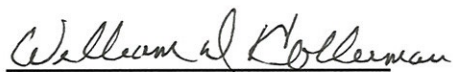
<u>Sample ID Number</u>	<u>Sample Description</u>	<u>Date Collected</u>	<u>Date Submitted</u>
AA72665	TVA-TNUP-20090110-001	1/10/09	1/10/09
AA72666	TVA-TNDN-20090110-002	1/10/09	1/10/09
AA72667	TVA-TN117-20090110-003	1/10/09	1/10/09
AA72668	TVA-SWI-20090110-004	1/10/09	1/10/09
AA72669	Widows Creek Matrix Spike	1/10/09	1/10/09
AA72670	Widows Creek Matrix Spike Duplicate	1/10/09	1/10/09

ENERSOLV maintains a quality system compliant with **ISO 17025:2005** and meets the relevant quality system requirements of **ISO 9001:2000**. Although not all tests performed by *ENERSOLV* are covered by this quality system, all tests have been conducted in accordance with *ENERSOLV* Standard Operating Procedures and Quality Control Program using, where applicable, U.S.E.P.A. approved methodology.

This cover page is an integral part of your report. *ENERSOLV* considers this report your official record. This information shall remain in *ENERSOLV*'s active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Reviewed by:



Karen Sutton
Vice President Client Services

Vice President
Technical Services



SAMPLE RESULTS REPORT

REPORT TO	<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>
<p>ENERSOLV maintains A2LA accreditation to ISO/IEC 17025:2005 for the specific tests listed in A2LA Certificate #2198-01. Some tests included in this report may not be covered by this accreditation. Tests within the scope of this accreditation are indicated by an asterisk (*).</p> <p>Cert. No. 2198-01 ISO 17025</p> <p><i>This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated without the express consent of ENERSOLV Corporation.</i></p>	

Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: TVA-TNUP-20090110-001		Collected: 01/10/2009		Submitted: 01/10/2009			
AA72665	Total Silver	0.00003	A	mg/l	0.00100	1	0.000017
AA72665	*Total Aluminum	2.80		mg/l	0.0500	1	0.009
AA72665	Total Alkalinity	49.1		l as Ca	1.00	1	1.00
AA72665	Total Arsenic	0.00055		mg/l	0.00050	1	0.000069
AA72665	Total Barium	0.0307		mg/l	0.00100	1	0.000030
AA72665	Total Beryllium	0.00007	A	mg/l	0.00100	1	0.000017
AA72665	*Total Calcium	16.4		mg/l	0.100	1	0.024
AA72665	Total Cadmium	0.00002	A	mg/l	0.00100	1	0.000018
AA72665	Total Cobalt	0.00084	A	mg/l	0.00100	1	0.000004
AA72665	*Chemical Oxygen Demand	3.00	A	mg/l	4.50	1	2.38
AA72665	Total Chromium	0.00216		mg/l	0.00100	1	0.000062
AA72665	Total Copper	0.00205		mg/l	0.00100	1	0.000101
AA72665	*Total Iron	1.89		mg/l	0.00500	1	0.001
AA72665	*Total Mercury	ND		mg/l	0.000200	1	0.00001
AA72665	Total Potassium	2.36		mg/l	0.100	1	0.040
AA72665	Total Magnesium	3.81		mg/l	0.0100	1	0.006
AA72665	Total Manganese	0.144		mg/l	0.00100	1	0.000027
AA72665	Total Sodium	5.32		mg/l	0.75	1	0.009
AA72665	*Ammonia-Nitrogen	ND		mg/l	0.100	1	0.06
AA72665	Total Nickel	0.00189		mg/l	0.00100	1	0.000024
AA72665	Nitrate-Nitrogen	0.45	A	mg/l	0.500	1	0.039
AA72665	Nitrate plus Nitrite-Nitrogen	0.57	A	mg/l	1.00	1	0.043
AA72665	*HEM (Oil and Grease)	ND		mg/l	5.00	1	2.98
AA72665	Total Lead	0.00178		mg/l	0.00100	1	0.000215
AA72665	pH	7.56		su		1	
AA72665	*Total Phosphorus	0.043	A	mg/l	1.00	1	0.008
AA72665	Total Antimony	0.00016	A	mg/l	0.00100	1	0.000005
AA72665	Total Selenium	0.00016	A	mg/l	0.00100	1	0.000094

SAMPLE RESULTS REPORT

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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>		<p>Cert. No. 2198-01 ISO 17025</p>					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72665	Sulfate (IC)	11.7		mg/l	2.5	1	0.051
AA72665	Total Dissolved Solids	67.0		mg/l	1.00	1	
AA72665	*Total Kjeldahl Nitrogen	ND		mg/l	1.50	1	0.89
AA72665	Total Thallium	0.00005		mg/l	0.00100	1	0.000010
AA72665	*Total Organic Carbon	2.2		mg/l	1.0	1	0.087
AA72665	*Total Suspended Solids	25.0		mg/l	2.50	1	
AA72665	Total Vanadium	0.00257		mg/l	0.00100	1	0.00048
AA72665	Total Zinc	0.0112		mg/l	0.00500	1	0.00048



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Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: TVA-TNDN-20090110-002		Collected: 01/10/2009		Submitted: 01/10/2009			
AA72666	Total Silver	0.00002	A	mg/l	0.00100	1	0.000017
AA72666	*Total Aluminum	2.86		mg/l	0.0500	1	0.009
AA72666	Total Alkalinity	48.8		l as Ca	1.00	1	1.00
AA72666	Total Arsenic	0.00059		mg/l	0.00050	1	0.000069
AA72666	Total Barium	0.0895		mg/l	0.00100	1	0.000030
AA72666	Total Beryllium	0.00007	A	mg/l	0.00100	1	0.000017
AA72666	*Total Calcium	18.2		mg/l	0.100	1	0.024
AA72666	Total Cadmium	ND		mg/l	0.00100	1	0.000018
AA72666	Total Cobalt	0.00084	A	mg/l	0.00100	1	0.000004
AA72666	*Chemical Oxygen Demand	3.60	A	mg/l	4.50	1	2.38
AA72666	Total Chromium	0.00175		mg/l	0.00100	1	0.000062
AA72666	Total Copper	0.00262		mg/l	0.00100	1	0.000101
AA72666	*Total Iron	1.99		mg/l	0.00500	1	0.001
AA72666	*Total Mercury	ND		mg/l	0.000200	1	0.00001
AA72666	Total Potassium	2.37		mg/l	0.100	1	0.040
AA72666	Total Magnesium	3.84		mg/l	0.0100	1	0.006
AA72666	Total Manganese	0.145		mg/l	0.00100	1	0.000027
AA72666	Total Sodium	5.11		mg/l	0.75	1	0.009
AA72666	*Ammonia-Nitrogen	ND		mg/l	0.100	1	0.06
AA72666	Total Nickel	0.00184		mg/l	0.00100	1	0.000024
AA72666	Nitrate-Nitrogen	0.46	A	mg/l	0.500	1	0.039
AA72666	Nitrate plus Nitrite-Nitrogen	0.58	A	mg/l	1.00	1	0.043
AA72666	*HEM (Oil and Grease)	ND		mg/l	5.00	1	2.98
AA72666	Total Lead	0.00197		mg/l	0.00100	1	0.000215
AA72666	pH	7.71		su		1	
AA72666	*Total Phosphorus	0.135	A	mg/l	1.00	1	0.008
AA72666	Total Antimony	0.00015	A	mg/l	0.00100	1	0.000005
AA72666	Total Selenium	0.00012	A	mg/l	0.00100	1	0.000094

SAMPLE RESULTS REPORT

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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>		<p>Cert. No. 2198-01 ISO 17025</p>					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72666	Sulfate (IC)	14.6		mg/l	5.0	1	0.051
AA72666	Total Dissolved Solids	60.0		mg/l	1.00	1	
AA72666	*Total Kjeldahl Nitrogen	ND		mg/l	1.50	1	0.89
AA72666	Total Thallium	0.00003	A	mg/l	0.00100	1	0.000010
AA72666	*Total Organic Carbon	2.2		mg/l	1.0	1	0.087
AA72666	*Total Suspended Solids	34.0		mg/l	2.50	1	
AA72666	Total Vanadium	0.0018		mg/l	0.00100	1	0.00048
AA72666	Total Zinc	0.0193		mg/l	0.00500	1	0.00048



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Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: TVA-TN117-20090110-003		Collected: 01/10/2009		Submitted: 01/10/2009			
AA72667	Total Silver	0.00002	A	mg/l	0.00100	1	0.000017
AA72667	*Total Aluminum	3.22		mg/l	0.0500	1	0.009
AA72667	Total Alkalinity	52.3		l as Ca	1.00	1	1.00
AA72667	Total Arsenic	0.00105		mg/l	0.00050	1	0.000069
AA72667	Total Barium	0.101		mg/l	0.00100	1	0.000030
AA72667	Total Beryllium	0.00009	A	mg/l	0.00100	1	0.000017
AA72667	*Total Calcium	25.3		mg/l	0.100	1	0.024
AA72667	Total Cadmium	0.00009	A	mg/l	0.00100	1	0.000018
AA72667	Total Cobalt	0.00091	A	mg/l	0.00100	1	0.000004
AA72667	*Chemical Oxygen Demand	3.10	A	mg/l	4.50	1	2.38
AA72667	Total Chromium	0.00223		mg/l	0.00100	1	0.000062
AA72667	Total Copper	0.00259		mg/l	0.00100	1	0.000101
AA72667	*Total Iron	2.33		mg/l	0.00500	1	0.001
AA72667	*Total Mercury	ND		mg/l	0.000200	1	0.00001
AA72667	Total Potassium	2.49		mg/l	0.100	1	0.040
AA72667	Total Magnesium	4.05		mg/l	0.0100	1	0.006
AA72667	Total Manganese	0.149		mg/l	0.00100	1	0.000027
AA72667	Total Sodium	5.40		mg/l	0.75	1	0.009
AA72667	*Ammonia-Nitrogen	ND		mg/l	0.100	1	0.06
AA72667	Total Nickel	0.0022		mg/l	0.00100	1	0.000024
AA72667	Nitrate-Nitrogen	0.45	A	mg/l	0.500	1	0.039
AA72667	Nitrate plus Nitrite-Nitrogen	0.57	A	mg/l	1.00	1	0.043
AA72667	*HEM (Oil and Grease)	ND		mg/l	5.00	1	2.98
AA72667	Total Lead	0.00199		mg/l	0.00100	1	0.000215
AA72667	pH	7.84		su		1	
AA72667	*Total Phosphorus	0.043	A	mg/l	1.00	1	0.008
AA72667	Total Antimony	0.00018	A	mg/l	0.00100	1	0.000005
AA72667	Total Selenium	0.00039	A	mg/l	0.00100	1	0.000094

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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>		<p>Cert. No. 2198-01 ISO 17025</p>					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72667	Sulfate (IC)	23.1		mg/l	5.0	1	0.051
AA72667	Total Dissolved Solids	70.0		mg/l	1.00	1	
AA72667	*Total Kjeldahl Nitrogen	1.09	A	mg/l	1.50	1	0.89
AA72667	Total Thallium	0.00006	A	mg/l	0.00100	1	0.000010
AA72667	*Total Organic Carbon	2.3		mg/l	1.0	1	0.087
AA72667	*Total Suspended Solids	40.0		mg/l	2.50	1	
AA72667	Total Vanadium	0.00293		mg/l	0.00100	1	0.00048
AA72667	Total Zinc	0.0278		mg/l	0.00500	1	0.00048



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John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339		Cert. No. 2198-01 ISO 17025					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: TVA-SWI-20090110-004		Collected: 01/10/2009		Submitted: 01/10/2009			
AA72668	Total Silver	ND		mg/l	0.00100	1	0.000017
AA72668	*Total Aluminum	1.71		mg/l	0.0500	1	0.009
AA72668	Total Alkalinity	55.9		l as Ca	1.00	1	1.00
AA72668	Total Arsenic	0.0008		mg/l	0.00050	1	0.000069
AA72668	Total Barium	0.104		mg/l	0.00100	1	0.000030
AA72668	Total Beryllium	0.00006	A	mg/l	0.00100	1	0.000017
AA72668	*Total Calcium	27.8		mg/l	0.100	1	0.024
AA72668	Total Cadmium	ND		mg/l	0.00100	1	0.000018
AA72668	Total Cobalt	0.00042	A	mg/l	0.00100	1	0.000004
AA72668	*Chemical Oxygen Demand	5.10		mg/l	4.50	1	2.38
AA72668	Total Chromium	0.00153		mg/l	0.00100	1	0.000062
AA72668	Total Copper	0.00366		mg/l	0.00100	1	0.000101
AA72668	*Total Iron	1.10		mg/l	0.00500	1	0.001
AA72668	*Total Mercury	ND		mg/l	0.000200	1	0.00001
AA72668	Total Potassium	2.26		mg/l	0.100	1	0.040
AA72668	Total Magnesium	3.74		mg/l	0.0100	1	0.006
AA72668	Total Manganese	0.069		mg/l	0.00100	1	0.000027
AA72668	Total Sodium	3.80		mg/l	0.75	1	0.009
AA72668	*Ammonia-Nitrogen	ND		mg/l	0.100	1	0.06
AA72668	Total Nickel	0.00167		mg/l	0.00100	1	0.000024
AA72668	Nitrate-Nitrogen	0.53		mg/l	0.500	1	0.039
AA72668	Nitrate plus Nitrite-Nitrogen	0.65	A	mg/l	1.00	1	0.043
AA72668	*HEM (Oil and Grease)	ND		mg/l	5.00	1	2.98
AA72668	Total Lead	0.00108		mg/l	0.00100	1	0.000215
AA72668	pH	7.79		su		1	
AA72668	*Total Phosphorus	ND		mg/l	1.00	1	0.008
AA72668	Total Antimony	0.00017	A	mg/l	0.00100	1	0.000005
AA72668	Total Selenium	0.00047	A	mg/l	0.00100	1	0.000094

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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>		<p>Cert. No. 2198-01 ISO 17025</p>					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72668	Sulfate (IC)	29.7		mg/l	5.0	1	0.051
AA72668	Total Dissolved Solids	113		mg/l	1.00	1	
AA72668	*Total Kjeldahl Nitrogen	1.34	A	mg/l	1.50	1	0.89
AA72668	Total Thallium	0.00004	A	mg/l	0.00100	1	0.000010
AA72668	*Total Organic Carbon	2.3		mg/l	1.0	1	0.087
AA72668	*Total Suspended Solids	8.60		mg/l	2.50	1	
AA72668	Total Vanadium	0.00154		mg/l	0.00100	1	0.00048
AA72668	Total Zinc	0.0169		mg/l	0.00500	1	0.00048



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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>	

Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: Widows Creek Matrix Spike		Collected: 01/10/2009		Submitted: 01/10/2009			
AA72669	Total Silver MS Recovery	102		%		1	
AA72669	Total Aluminum MS Recovery	130		%		1	
AA72669	Total Arsenic MS Recovery	97.2		%		1	
AA72669	Total Barium MS Recovery	118		%		1	
AA72669	Total Beryllium MS Recovery	90.3		%		1	
AA72669	Total Calcium MS Recovery	109		%		1	
AA72669	Total Cadmium MS Recovery	98.5		%		1	
AA72669	Total Cobalt MS Recovery	95.5		%		1	
AA72669	*Chemical Oxygen Demand MS Recove	109		%		1	
AA72669	Total Chromium MS Recovery	96.6		%		1	
AA72669	Total Copper MS Recovery	95.3		%		1	
AA72669	Total Iron MS Recovery	106		%		1	
AA72669	Total Mercury MS Recovery	102		%		1	
AA72669	Total Potassium MS Recovery	112		%		1	
AA72669	Total Magnesium MS Recovery	106		%		1	
AA72669	Total Manganese MS Recovery	111		%		1	
AA72669	Total Sodium MS Recovery	125		%		1	
AA72669	Ammonia-Nitrogen MS Recovery	89.2		%		1	
AA72669	Total Nickel MS Recovery	94.5		%		1	
AA72669	Nitrate-Nitrogen MS Recovery	94		%		1	
AA72669	Nitrate + Nitrite-Nitrogen MS Recover	97		%		1	
AA72669	Oil & Grease MS Recovery	91.9		%		1	0
AA72669	Total Lead MS Recovery	104		%		1	
AA72669	Total Phosphorus MS Recovery	98.9		%		1	
AA72669	Total Antimony MS Recovery	96.6		%		1	
AA72669	Total Selenium MS Recovery	94.8		%		1	
AA72669	Sulfate MS Recovery	105		%		1	
AA72669	Total Kjeldahl Nitrogen MS Recovery	109		%		1	

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John Schendel
Tetra Tech
2110 Powers Ferry Road Ste. 202
Atlanta, GA 30339

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ISO 17025

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Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72669	Total Thallium MS Recovery	101		%		1	
AA72669	Total Organic Carbon MS Recovery	87		%		1	
AA72669	Total Vanadium MS Recovery	97.7		%		1	
AA72669	Total Zinc MS Recovery	100		%		1	



SAMPLE RESULTS REPORT

REPORT TO	<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>
<p>ENERSOLV maintains A2LA accreditation to ISO/IEC 17025:2005 for the specific tests listed in A2LA Certificate #2198-01. Some tests included in this report may not be covered by this accreditation. Tests within the scope of this accreditation are indicated by an asterisk (*).</p> <p>Cert. No. 2198-01 ISO 17025</p> <p><i>This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated without the express consent of ENERSOLV Corporation.</i></p>	

Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
Sample Point: Widows Creek Matrix Spike Duplicate				Collected: 01/10/2009		Submitted: 01/10/2009	
AA72670	Total Silver MS Recovery	105		%		1	
AA72670	Total Aluminum MS Recovery	134		%		1	
AA72670	Total Arsenic MS Recovery	97.6		%		1	
AA72670	Total Barium MS Recovery	130		%		1	
AA72670	Total Beryllium MS Recovery	92.2		%		1	
AA72670	Total Calcium MS Recovery	134		%		1	
AA72670	Total Cadmium MS Recovery	101		%		1	
AA72670	Total Cobalt MS Recovery	97.3		%		1	
AA72670	*Chemical Oxygen Demand MS Recovery	109		%		1	
AA72670	Total Chromium MS Recovery	98.4		%		1	
AA72670	Total Copper MS Recovery	95.5		%		1	
AA72670	Total Iron MS Recovery	109		%		1	
AA72670	Total Mercury MS Recovery	102		%		1	
AA72670	Total Potassium MS Recovery	110		%		1	
AA72670	Total Magnesium MS Recovery	105		%		1	
AA72670	Total Manganese MS Recovery	116		%		1	
AA72670	Total Sodium MS Recovery	122		%		1	
AA72670	Ammonia-Nitrogen MS Recovery	91.6		%		1	
AA72670	Total Nickel MS Recovery	96.3		%		1	
AA72670	Nitrate-Nitrogen MS Recovery	93		%		1	
AA72670	Nitrate + Nitrite-Nitrogen MS Recovery	93		%		1	
AA72670	Oil & Grease MS Recovery	93.0		%		1	0
AA72670	Total Lead MS Recovery	109		%		1	
AA72670	Total Phosphorus MS Recovery	97.5		%		1	
AA72670	Total Antimony MS Recovery	98.3		%		1	
AA72670	Total Selenium MS Recovery	94.5		%		1	
AA72670	Sulfate MS Recovery	100		%		1	
AA72670	Total Kjeldahl Nitrogen MS Recovery	98.1		%		1	

SAMPLE RESULTS REPORT

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John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339		<i>This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated without the express consent of ENERSOLV Corporation.</i>							
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL		
AA72670	Total Thallium MS Recovery	104		%		1			
AA72670	Total Organic Carbon MS Recovery	84		%		1			
AA72670	Total Vanadium MS Recovery	99.4		%		1			
AA72670	Total Zinc MS Recovery	99.7		%		1			

ND: Not Detected

MDL values are for reagent water matrix.

Qualifiers:

A: Indicates the analyte was detected above the calculated Method Detection Limit (MDL) but at a concentration less than the Practical Quantitation Limit. (PQL). This value is unreliable and should not be used for regulatory purposes. The sample has been analyzed with minimum dilution necessary to maintain values within instrument calibration range.



SAMPLE RESULTS REPORT

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<div>John Schendel Tetra Tech 2110 Powers Ferry Road Atlanta, GA 30339</div> <div>Ste. 202</div>							
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL

Cert. No. 2198-01
ISO 17025

Analysis Information

Sample ID	Analysis	Method	Analyst	Analysis		BOD/CBOD Analysis
				Start Date/Time	End Date/Time	
AA72665	Ammonia-Nitrogen	SM 4500 NH3-C	JLP	01/11/2009	12:41	
AA72665	Chemical Oxygen Demand	Hach 8000	JW	01/11/2009	07:15	
AA72665	HEM (Oil and Grease)	EPA 1664A	RAC	01/11/2009	06:00	
AA72665	Nitrate plus Nitrite-Nitrogen	EPA 300.0	AJW	01/11/2009	11:37	
AA72665	Nitrate-Nitrogen	EPA 300.0	AJW	01/11/2009	11:37	
AA72665	pH	SM 4500-H+	JLP	01/11/2009	06:50	
AA72665	Sulfate (IC)	EPA 300.0	AJW	01/11/2009	14:03	
AA72665	Total Alkalinity	SM 2320B	JLP	01/11/2009	07:15	
AA72665	Total Aluminum	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Antimony	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Arsenic	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Barium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Beryllium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Cadmium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Calcium	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Chromium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Cobalt	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Copper	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Dissolved Solids	SM 2540C	JLP	01/11/2009	06:22	
AA72665	Total Iron	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Kjeldahl Nitrogen	SM 4500-Norg C	JLP	01/11/2009	07:30	
AA72665	Total Lead	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Magnesium	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Manganese	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Mercury	EPA 245.1	KW	01/11/2009	09:15	
AA72665	Total Nickel	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Organic Carbon	SM 5310 B	AJW	01/11/2009	14:40	
AA72665	Total Phosphorus	EPA 365.3	JW	01/11/2009	06:30	
AA72665	Total Potassium	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Selenium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Silver	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Sodium	EPA 200.7	HGT	01/11/2009	17:09	
AA72665	Total Suspended Solids	USGS I-3765-85	JW	01/11/2009	06:45	
AA72665	Total Thallium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Vanadium	EPA 200.8	KW	01/11/2009	16:17	
AA72665	Total Zinc	EPA 200.8	KW	01/11/2009	16:17	
AA72666	Ammonia-Nitrogen	SM 4500 NH3-C	JLP	01/11/2009	12:41	
AA72666	Chemical Oxygen Demand	Hach 8000	JW	01/11/2009	07:15	
AA72666	HEM (Oil and Grease)	EPA 1664A	RAC	01/11/2009	06:00	
AA72666	Nitrate plus Nitrite-Nitrogen	EPA 300.0	AJW	01/11/2009	11:51	
AA72666	Nitrate-Nitrogen	EPA 300.0	AJW	01/11/2009	11:51	
AA72666	pH	SM 4500-H+	JLP	01/11/2009	06:50	
AA72666	Sulfate (IC)	EPA 300.0	AJW	01/11/2009	14:30	

SAMPLE RESULTS REPORT

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John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339		Cert. No. 2198-01 ISO 17025					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72666	Total Alkalinity	SM 2320B		JLP	01/11/2009	07:15	
AA72666	Total Aluminum	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Antimony	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Arsenic	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Barium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Beryllium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Cadmium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Calcium	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Chromium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Cobalt	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Copper	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Dissolved Solids	SM 2540C		JLP	01/11/2009	06:22	
AA72666	Total Iron	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Kjeldahl Nitrogen	SM 4500-Norg C		JLP	01/11/2009	07:30	
AA72666	Total Lead	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Magnesium	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Manganese	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Mercury	EPA 245.1		KW	01/11/2009	09:15	
AA72666	Total Nickel	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Organic Carbon	SM 5310 B		AJW	01/11/2009	14:54	
AA72666	Total Phosphorus	EPA 365.3		JW	01/11/2009	06:30	
AA72666	Total Potassium	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Selenium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Silver	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Sodium	EPA 200.7		HGT	01/11/2009	17:13	
AA72666	Total Suspended Solids	USGS I-3765-85		JW	01/11/2009	06:45	
AA72666	Total Thallium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Vanadium	EPA 200.8		KW	01/11/2009	16:22	
AA72666	Total Zinc	EPA 200.8		KW	01/11/2009	16:22	
AA72667	Ammonia-Nitrogen	SM 4500 NH3-C		JLP	01/11/2009	12:41	
AA72667	Chemical Oxygen Demand	Hach 8000		JW	01/11/2009	07:15	
AA72667	HEM (Oil and Grease)	EPA 1664A		RAC	01/11/2009	06:00	
AA72667	Nitrate plus Nitrite-Nitrogen	EPA 300.0		AJW	01/11/2009	12:06	
AA72667	Nitrate-Nitrogen	EPA 300.0		AJW	01/11/2009	12:06	
AA72667	pH	SM 4500-H+		JLP	01/11/2009	06:50	
AA72667	Sulfate (IC)	EPA 300.0		AJW	01/11/2009	15:47	
AA72667	Total Alkalinity	SM 2320B		JLP	01/11/2009	07:15	
AA72667	Total Aluminum	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Antimony	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Arsenic	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Barium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Beryllium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Cadmium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Calcium	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Chromium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Cobalt	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Copper	EPA 200.8		KW	01/11/2009	16:32	

SAMPLE RESULTS REPORT

REPORT TO

John Schendel

Tetra Tech

2110 Powers Ferry Road

Ste. 202

Atlanta, GA 30339

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Cert. No. 2198-01
ISO 17025

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Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72667	Total Dissolved Solids	SM 2540C		JLP	01/11/2009	06:22	
AA72667	Total Iron	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Kjeldahl Nitrogen	SM 4500-Norg C		JLP	01/11/2009	07:30	
AA72667	Total Lead	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Magnesium	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Manganese	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Mercury	EPA 245.1		KW	01/11/2009	09:15	
AA72667	Total Nickel	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Organic Carbon	SM 5310 B		AJW	01/11/2009	15:09	
AA72667	Total Phosphorus	EPA 365.3		JW	01/11/2009	06:30	
AA72667	Total Potassium	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Selenium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Silver	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Sodium	EPA 200.7		HGT	01/11/2009	17:34	
AA72667	Total Suspended Solids	USGS 1-3765-85		JW	01/11/2009	06:45	
AA72667	Total Thallium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Vanadium	EPA 200.8		KW	01/11/2009	16:32	
AA72667	Total Zinc	EPA 200.8		KW	01/11/2009	16:32	
AA72668	Ammonia-Nitrogen	SM 4500 NH3-C		JLP	01/11/2009	12:41	
AA72668	Chemical Oxygen Demand	Hach 8000		JW	01/11/2009	07:15	
AA72668	HEM (Oil and Grease)	EPA 1664A		RAC	01/11/2009	06:00	
AA72668	Nitrate plus Nitrite-Nitrogen	EPA 300.0		AJW	01/11/2009	12:21	
AA72668	Nitrate-Nitrogen	EPA 300.0		AJW	01/11/2009	12:21	
AA72668	pH	SM 4500-H+		JLP	01/11/2009	06:50	
AA72668	Sulfate (IC)	EPA 300.0		AJW	01/11/2009	16:02	
AA72668	Total Alkalinity	SM 2320B		JLP	01/11/2009	07:15	
AA72668	Total Aluminum	EPA 200.7		HGT	01/11/2009	17:40	
AA72668	Total Antimony	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Arsenic	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Barium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Beryllium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Cadmium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Calcium	EPA 200.7		HGT	01/11/2009	17:40	
AA72668	Total Chromium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Cobalt	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Copper	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Dissolved Solids	SM 2540C		JLP	01/11/2009	06:22	
AA72668	Total Iron	EPA 200.7		HGT	01/11/2009	17:40	
AA72668	Total Kjeldahl Nitrogen	SM 4500-Norg C		JLP	01/11/2009	07:30	
AA72668	Total Lead	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Magnesium	EPA 200.7		HGT	01/11/2009	17:40	
AA72668	Total Manganese	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Mercury	EPA 245.1		KW	01/11/2009	09:15	
AA72668	Total Nickel	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Organic Carbon	SM 5310 B		AJW	01/11/2009	15:24	
AA72668	Total Phosphorus	EPA 365.3		JW	01/11/2009	06:30	
AA72668	Total Potassium	EPA 200.7		HGT	01/11/2009	17:40	

SAMPLE RESULTS REPORT

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John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339		Cert. No. 2198-01 ISO 17025					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72668	Total Selenium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Silver	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Sodium	EPA 200.7		HGT	01/11/2009	17:40	
AA72668	Total Suspended Solids	USGS I-3765-85		JW	01/11/2009	06:45	
AA72668	Total Thallium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Vanadium	EPA 200.8		KW	01/11/2009	16:38	
AA72668	Total Zinc	EPA 200.8		KW	01/11/2009	16:38	
AA72669	Ammonia-Nitrogen MS Recovery	SM 4500 NH3-C		JLP	01/11/2009	12:41	
AA72669	Chemical Oxygen Demand MS Recovery	Hach 8000		JW	01/11/2009	07:15	
AA72669	Nitrate + Nitrite-Nitrogen MS Recovery	EPA 300.0		AJW	01/11/2009	13:33	
AA72669	Nitrate-Nitrogen MS Recovery	EPA 300.0		AJW	01/11/2009	13:33	
AA72669	Oil & Grease MS Recovery	EPA 1664A		RAC	01/11/2009	06:00	
AA72669	Sulfate MS Recovery	EPA 300.0		AJW	01/11/2009	14:33	
AA72669	Total Aluminum MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Antimony MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Arsenic MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Barium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Beryllium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Cadmium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Calcium MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Chromium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Cobalt MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Copper MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Iron MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Kjeldahl Nitrogen MS Recovery	SM 4500-Norg C		JLP	01/11/2009	07:30	
AA72669	Total Lead MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Magnesium MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Manganese MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Mercury MS Recovery	EPA 245.1		KW	01/11/2009	09:15	
AA72669	Total Nickel MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Organic Carbon MS Recovery	SM 5310 B		AJW	01/11/2009	15:39	
AA72669	Total Phosphorus MS Recovery	EPA 365.3		JW	01/11/2009	06:30	
AA72669	Total Potassium MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Selenium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Silver MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Sodium MS Recovery	EPA 200.7		HGT	01/11/2009	17:22	
AA72669	Total Thallium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Vanadium MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72669	Total Zinc MS Recovery	EPA 200.8		KW	01/11/2009	16:43	
AA72670	Ammonia-Nitrogen MS Recovery	SM 4500 NH3-C		JLP	01/11/2009	12:41	
AA72670	Chemical Oxygen Demand MS Recovery	Hach 8000		JW	01/11/2009	07:15	
AA72670	Nitrate + Nitrite-Nitrogen MS Recovery	EPA 300.0		AJW	01/11/2009	13:48	
AA72670	Nitrate-Nitrogen MS Recovery	EPA 300.0		AJW	01/11/2009	13:48	
AA72670	Oil & Grease MS Recovery	EPA 1664A		RAC	01/11/2009	06:00	
AA72670	Sulfate MS Recovery	EPA 300.0		AJW	01/11/2009	14:47	
AA72670	Total Aluminum MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Antimony MS Recovery	EPA 200.8		KW	01/11/2009	16:48	

SAMPLE RESULTS REPORT

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<p>John Schendel Tetra Tech 2110 Powers Ferry Road Ste. 202 Atlanta, GA 30339</p>		<p>Cert. No. 2198-01 ISO 17025</p>					
Sample ID	Analyte Name	Result	Qual	Units	PQL	Dilution Factor	MDL
AA72670	Total Arsenic MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Barium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Beryllium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Cadmium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Calcium MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Chromium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Cobalt MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Copper MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Iron MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Kjeldahl Nitrogen MS Recovery	SM 4500-Norg C		JLP	01/11/2009	07:30	
AA72670	Total Lead MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Magnesium MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Manganese MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Mercury MS Recovery	EPA 245.1		KW	01/11/2009	09:15	
AA72670	Total Nickel MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Organic Carbon MS Recovery	SM 5310 B		AJW	01/11/2009	15:54	
AA72670	Total Phosphorus MS Recovery	EPA 365.3		JW	01/11/2009	06:30	
AA72670	Total Potassium MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Selenium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Silver MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Sodium MS Recovery	EPA 200.7		HGT	01/11/2009	17:28	
AA72670	Total Thallium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Vanadium MS Recovery	EPA 200.8		KW	01/11/2009	16:48	
AA72670	Total Zinc MS Recovery	EPA 200.8		KW	01/11/2009	16:48	



CHAIN OF CUSTODY RECORD

416386

Remarks	LAB RECD
• 24	
• LEV	
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DISTRIBUTION Original and Pink copies accompany sample shipment to laboratory. Pink copy retained by laboratory, Yellow copy retained by samplers. Blue copy extra copy as needed.